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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/849,198	05/19/2004	DiplIng. Karl Schrodinger	MAIKP137US	6994	
57299 Kathy Manke	7590 12/14/2007	EXAMINER			
Avago Technol		BELLO, AGUSTIN			
4380 Ziegler Re Fort Collins, Co		ART UNIT	PAPER NUMBER		
		2613			
			NOTIFICATION DATE	DELIVERY MODE	
			12/14/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

avagoip@system.foundationip.com kathy.manke@avagotech.com scott.weitzel@avagotech.com

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Office Action Summary		Application	n No.	Applicant(s)				
		10/849,19	8	SCHRODINGER,	DIPLING.	KARL		
		Examiner		Art Unit		-		
		Agustin Be	illo	2613				
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Status								
1)⊠	Responsive to communication(s) filed on 23 S	September 2	<u>004</u> .					
2a) <u></u> □	☐ This action is FINAL . 2b) ☑ This action is non-final.							
3)[·—							
	closed in accordance with the practice under E	Ex parte Qua	ayle, 1935 C.D. 11, 45	3 O.G. 213.				
Dispositi	on of Claims							
5)⊠ 6)⊠ 7)□	Claim(s) <u>23-44</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) <u>27-36,39 and 40</u> is/are allowed. Claim(s) <u>23-26,37,38 and 41-44</u> is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from cor d.	·					
Applicati	on Papers							
9) 🗌 🤈	The specification is objected to by the Examine	er.						
10)	The drawing(s) filed on is/are: a) ☐ acc	epted or b)[\square objected to by the E	xaminer.				
	Applicant may not request that any objection to the		•					
11) 🔲 .	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	-				•		
Priority u	nder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents	ts have beer	n received.	., .,				
	 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau 	rity docume	nts have been received		Stage			
* S	ee the attached detailed Office action for a list	•		d				
Attachment	(s)							
1) 🛚 Notice	e of References Cited (PTO-892)		4) Interview Summary (
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) 'No(s)/Mail Date		Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:					

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/31/07 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 23-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Tanji (U.S. Patent No. 6,512,617).

Regarding claim 23, Tanji teaches an optical transmission element (reference numeral 25 in Figure 1); a driver (reference numeral 80 in Figure 1) comprising a driver input configured to drive the optical transmission element in response to a transmission signal applied to the driver input to produce a drive signal for the optical transmission element; an internal programmable control device (reference numeral 15 in Figure 1) configured to selectively drive the driver in a program mode of operation; and a multiplexing device (reference numeral 35 in Figure 1) connected between a signal input comprising an external connecting pin (reference numeral 40, 45, 50, 55 in Figure 1) of the transmission module, the driver input (reference numeral 80 in

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Figure 1) and the programmable control device (reference numeral 15 in Figure 1), and configured to selectively pass an input signal at the external connecting pin signal input of the transmission module to the control device in the program mode or to the driver in a transmission mode of operation (column 3 lines 55-64).

Regarding claim 24, Tanji teaches that the multiplexing device comprises a control input (reference numeral 45 in Figure 1) via which a control signal is fed into the multiplexing device (reference numeral 35 in Figure 1), and wherein the multiplexing device is configured to switch in response to the control signal from a program mode switching state in which the signal input of the transmission module and the programmable control device are connected, to a transmission mode switching state in which the signal input of the transmission module and the driver input are connected, or vice versa (column 3 lines 55-64).

Regarding claim 25, Tanji teaches that the multiplexing device is configured to determine whether the input signal applied to the signal input of the transmission module is a programming signal for the programmable control device or a transmission signal for the driver, and wherein the multiplexing device is configured to switch the input signal automatically to the programmable control device if the input signal is a programming signal, or switch the input signal to the driver if the input signal is a transmission signal (e.g. signal 45 initiates the "Calibration mode" and therefore element 35 in Figure 1 determines whether the input signal is a programming signal or a transmission signal; see also column 3 lines 55-64).

Regarding claim 26, Tanji teaches a monitoring module (reference numeral 35 in Figure 1) comprising an input (e.g. "INTERFACE" of numeral 35 connected to reference numerals 45, 55 in Figure 1) connected directly or indirectly to the signal input of the transmission module

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and configured to identify programming signals and transmission signals in each case (e.g. inherent in the identification of the calibration initiate signal); and a multiplexing unit (e.g. the unit comprising both the CONTROL and STATE MACHINE of element 35 in Figure 1) coupled to and driven by the monitoring module via a control connection and comprising at least one input (reference numerals 45, 55 in Figure 1), two outputs (e.g. one output to reference numeral 15 in Figure 1; and a second output to reference numeral 75, 80 in Figure 1) and the control connection (reference numeral 45 in Figure 1), wherein the multiplexing unit is connected directly or indirectly at the input to the signal input of the transmission module (reference numerals 45, 55 in Figure 1) and at the output to the driver input of the driver (reference numeral 80 in Figure 1) and to the programmable control device (reference numeral 15 in Figure 1), respectively, and wherein the multiplexing unit is configured to connect the signal input of the transmission module to the driver input of the driver or to the control device as a function of a control signal from the monitoring module (e.g. signal 45 initiates the "Calibration mode" and therefore element 35 in Figure 1 determines whether the input signal is a programming signal or a transmission signal; see also column 3 lines 55-64).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- . (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 37-38 and 41-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanji.

Regarding claim 37-38 and 41-44, Tanji differs from the claimed invention in that Tanji fails to specifically teach a level detector, frequency detector, or code detector which act to evaluate the input signal and determine whether the input signal is a transmission signal or a programming signal. However, one skilled in the art would clearly have recognized that any of these differentiators and their corresponding detectors could have been used to determine whether the input signal is a transmission signal or a programming signal. Differentiation of signal according to level, frequency, or code is very well known in the art and therefore, it would have been obvious to one skilled in the art at the time the invention was made to employ any of these differentiators and their corresponding detectors in the system of Tanji.

Allowable Subject Matter

6. Claims 27-36, 39-40 are allowed.

Response to Arguments

7. Applicant's arguments filed 10/31/07 have been fully considered but they are not persuasive. The applicant argues that the amended claim distinguishes the invention from the prior art. However, as noted above, the examiner disagrees. The limitations are clearly met by the cited prior art in that the EEPROM 15 is an internal part of the overall transceiver module shown by Figure 1 in its entirety. While the applicant implies that the programmable module is internal to the integrated CMOS circuit, the claim language is not as specific.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Agustin Bello whose telephone number is (571) 272-3026. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571)272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Agustin Bello Primary Examiner Art Unit 2613